

FIG. 1A

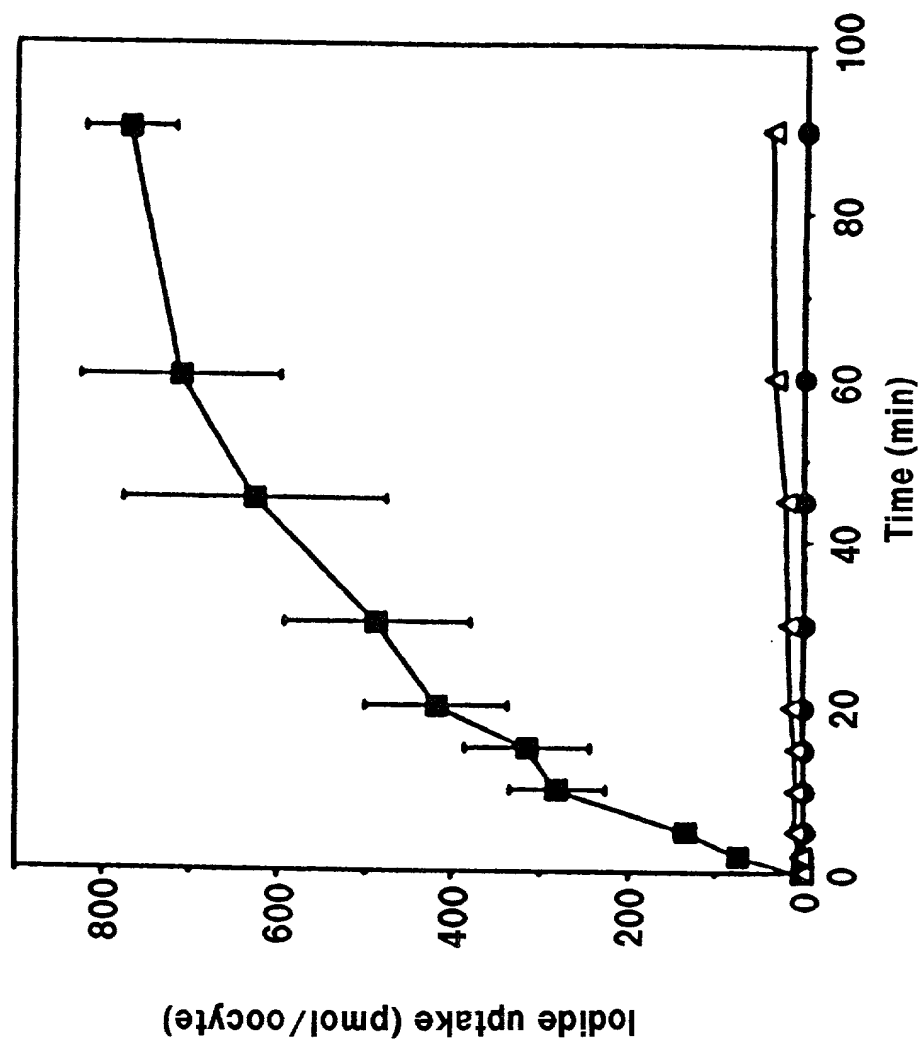


FIG. 1B

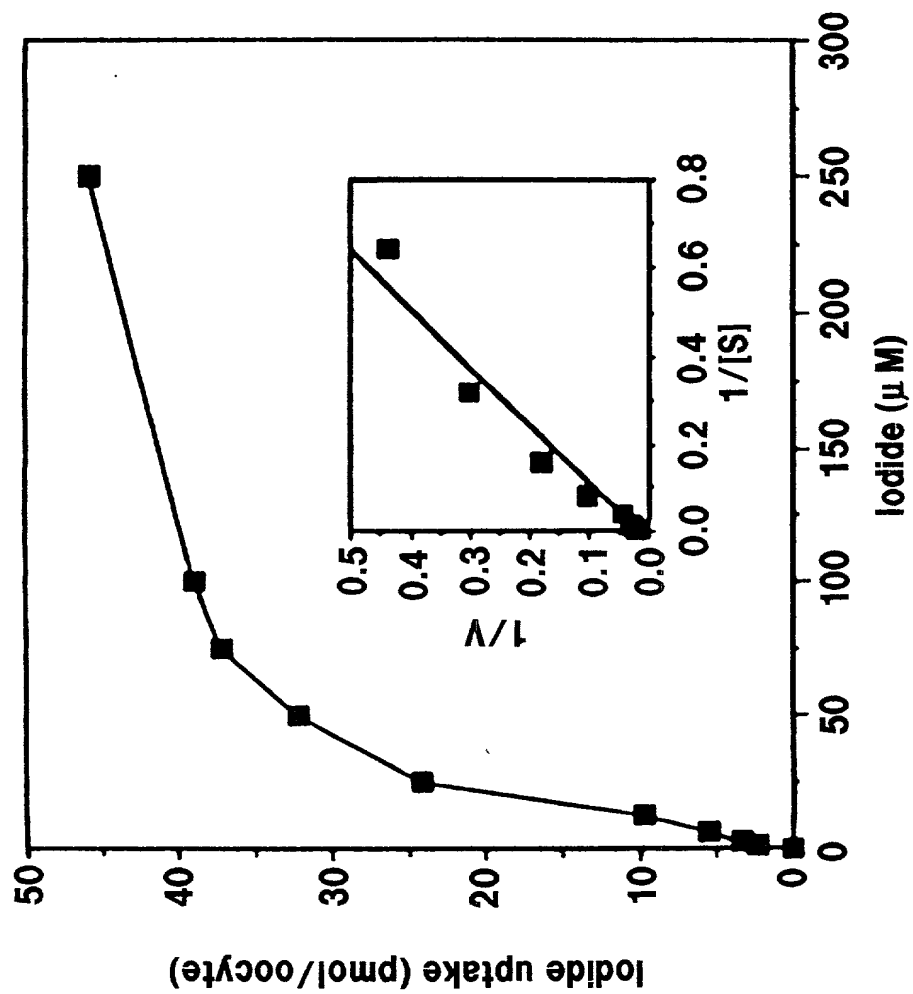


FIG. 1C

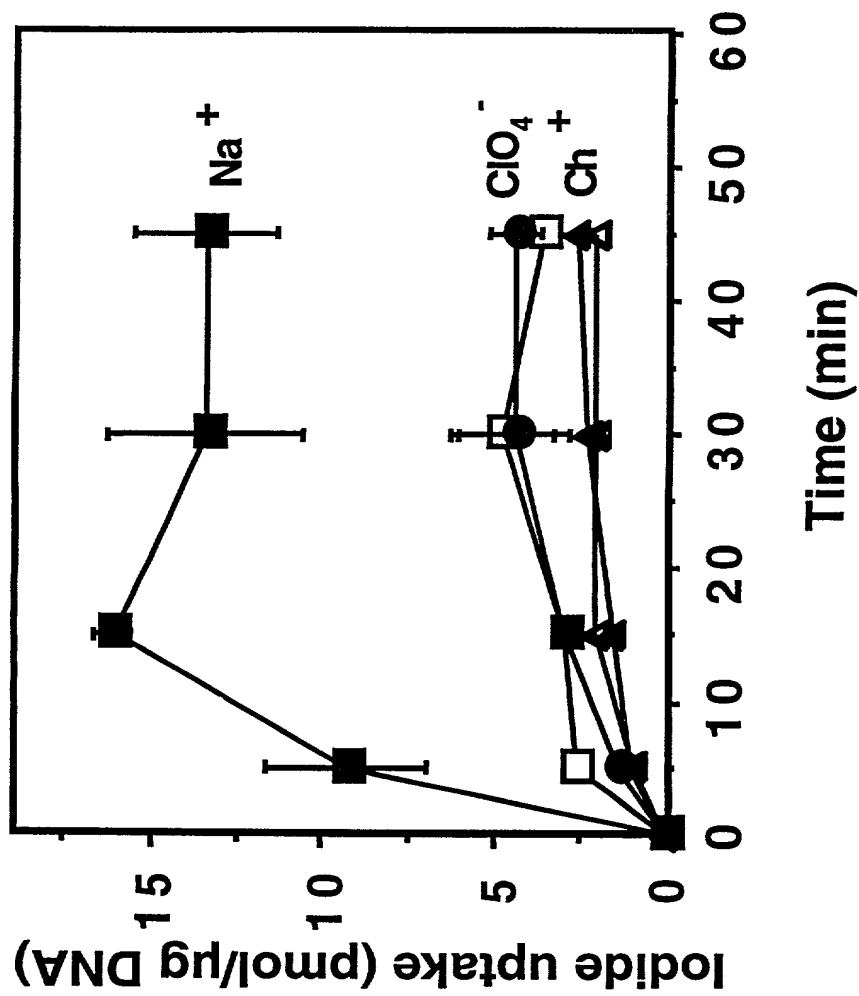


FIG. 1D

gaattccgggtcgaccacgcgtccggcggtgactcgcgctgcgactctcccactgaccga 60
gagtcgccgagctcctccgcacatcctcctcaccgagtcacctgtctcccATGGAGGGTGC 120
M E G A 4
GGAGGCCGGGGCCGGGCCACCTTCGGCGCCTGGGACTACGGCGTGTTCGGCACCATGCT 180
E A G A R A T F G A W D Y G V F A T M L 24
GCTGGTGTCCACGGGCATCGGGCTATGGTTCGGCCTGGCCCGCGGTGGCCAAACGCACTGC 240
L V S T G I G L W V G L A R G G Q R S A 44
CGACGACTTCTTACCGGGGGCCGGCAGTTGGCAGCGCTTCCTGTGGGGCTGTCTGCTGGC 300
D D F F T T G G R Q L A A V P V G L S L A 64
CGCCAGTTTCATGTTCGGCTGTGCAGGTGCTCGGGGTCCCGCCGAGGCAGCGCGCTACGG 360
A S F M S A V O V L G V P A E A A R Y G 84
GCTCAAGTTCCTGTGGATGTGGCGGGTCAGTTGCTCAACTCGCTGCTCACAGCGTTTCT 420
L K F L W M C A G Q L L N S L L T A F L 104
CTTCTTGGCGATCTTCTACCGCCTGGGCCTTACCAGCACCTACCAGTACCTAGAGCTGCG 480
F L P I F Y R L G L T S T Y Q Y L E L R 124
CTTCAGCCGAGCGGTCTGGCGGACGCTGCAGTACTTGGTGGCCACGATGCTGTA 540
F S R A V R L C G T L O Y L V A T M L Y 144
TACAGGCATCGTGTACTACGGCGCTGCGCTCATCTGAACCAAGTACCGGGTGGACAT 600
T G I V I Y A P A L I I N Q V T G L D I 164
CTGGGCATCGCTCCTGTCCACAGGAATCATCTGCACCTTGTACACTACCGTGGGTGGTAT 660
W A S L L S T G I I C T L Y T T V G G M 184
GAAGGCCGTGGTCTGGACAGATGTGTTCAGGTGTGTGTAATGCTGCTTGGCTTCTGGGT 720
K A V V V F Q V V V M L V G F W V 204
GATCCTGGCCCGAGGCGTCATTCTCCCTGGGGGTCCCGGAACGTGCTCAGCCTCGCTCA 780
I L A R G V I L L G G P R N V L S L A Q 224
GAACCATCCCGGATCAACCTGTGGACTTTGACCTGATCCTCGAGCGGTACACCTT 840
N H S R I N L M D F D P D P R S R Y T F 244
CTGGACTTTCATAGTGGGTGGCAGCTGGTGTGGCTCTCCATGTACGGTGTGAACCAAGC 900
W T F I V G G T L V W L S M Y G V N Q A 264
CCAGGTACAGCGCTATGTGGCCTGCCACACAGAGGAAAGGCCAAACTGGCCCTGCTTGT 960
Q V Q R Y V A C H T E G K A K L A L L V 284
CAACCAGCTGGGCTCTTCTGATTTGGCCAGTGCAGCTTGTCTGGCATTGTCTATGTT 1020
N Q L G L F L I V A S A A C C G I V M F 304
CGTCTACTACAAGGACTGTGACCCCTCCTCACAGGCGGTATCTCAGCCCCGACAGTA 1080
V Y Y K D C D P L L T G R I S A P D Q Y 324
CATGCCGTGCTTGTGTGTGGACATTTTGGAGATCTGCCCGGGGTCCCGGGCTCTTCCT 1140
M P L L V L D I F E D L P G V P G L F L 344
GGCCTGTGCTACAGTGGCACCCTCAGCACTGCATCCACCAGCATCAACGCCATGGCAGC 1200
A C A Y S G T L S T A S T S I N A M A A 364
TGTGACTGTGGAAGACCTCATCAAGCGAGGATGCCCTGGCCTGGCACCTCGGAAGTTGGT 1260
V T V E D L I K P R M P G L A P R K L V 384
TTTCATCTCTAAAGGCTCTCATCTACGGCTCTGCCTGCCTCACTGTGGCTGCTCT 1320
F I S K G L S F I Y G S A C L T V A A L 404
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S S L L G G G V L Q G S F T V M G V I S 424
TGGCCTCTACTAGGCGCCTTACGCTTGGGATGCTGCTCCAGCCTGCAACACGCCAGG 1440
G P L L G A F T L G M L L P A C N T P G 444
CGTTCCTCTCCGGTGGCAGCAGGCTTGGCTGTATCCCTGTGGGTGGCCGTAGGGGCCAC 1500
V L S G L A G L A V S L W V A V G A T 464
ACTGTATCCCCCTGGAGAGCAGACCATGGGGTGTGCCCACCTCGCTGCAGGCTGCAC 1560
L Y P P G E Q T M G V L P T S A A G C T 484
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N D S V L L G P P G A T N A S N G I P S 504
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S G M D T G R P A L A D T F Y A I S Y L 524
CTATTACCGGGCTCTGGGCACGCTGACCACCATGCTTTCGGGTGCTCTCATCAGCTACCT 1740
Y Y G A L G T L T T M L C G A L I S Y L 544
TACTGTCCCAACCAAGCGAGCTCCCTGGGTCCCGGATTGCTGTGGTGGGACCTTGTCTG 1800
T G P T K R S S L G P G L L W W D L A R 564
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Q T A S V A P K E D T A T L E E S L V K 584
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G P E D I P A V T K K P P G L K P G A E 604
GACCCACCCCTGTATCTGGGGCAGCATGTGGAGACCAACCTCtgagggcggggtccaag 1980
T H P L Y L G H D V E T N L 618
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gag 2160
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caaggggacggattctcagagccttcacaagacacaaacggagaggttgcctcctccaatt 2460
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accctctgtcttttcacacactaggcaactgctccaccacagagcctcacacctagacct 2640
ccgtttttgacacagggccttaaggtaactctggctgcatctgactatctcagcacgt 2700
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FIG. 2

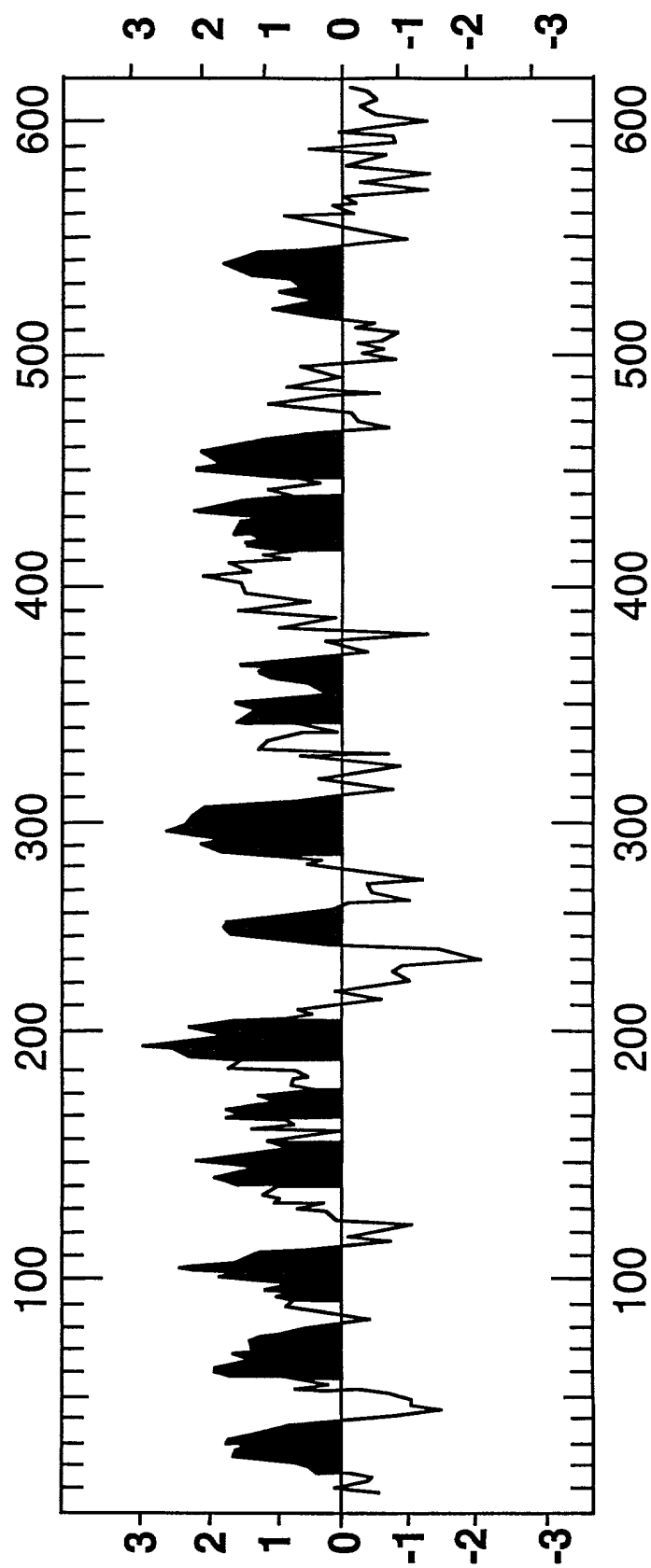


FIG. 3A

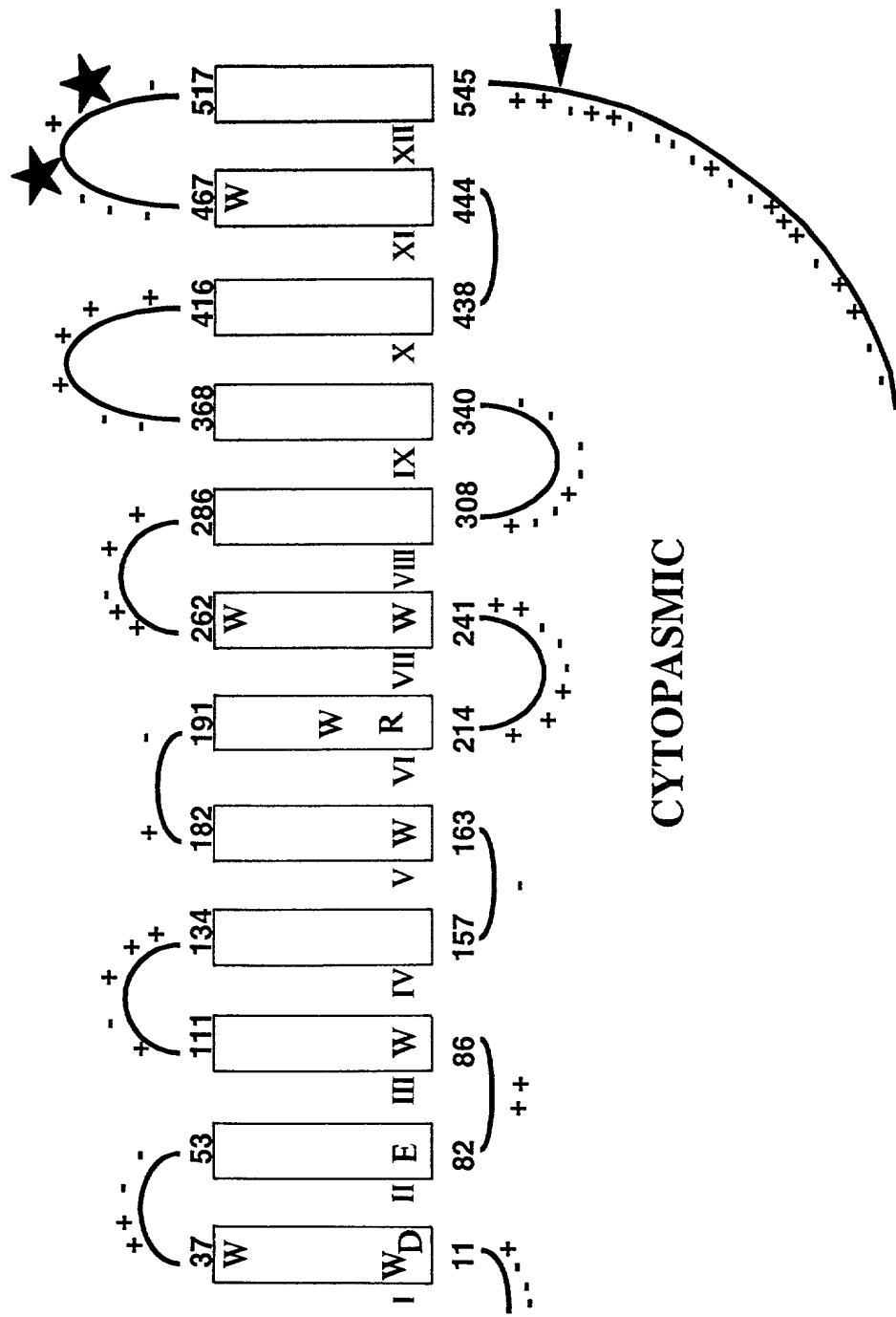


FIG. 3B

DENDROGRAM OF SODIUM DRIVEN TRANSPORTERS

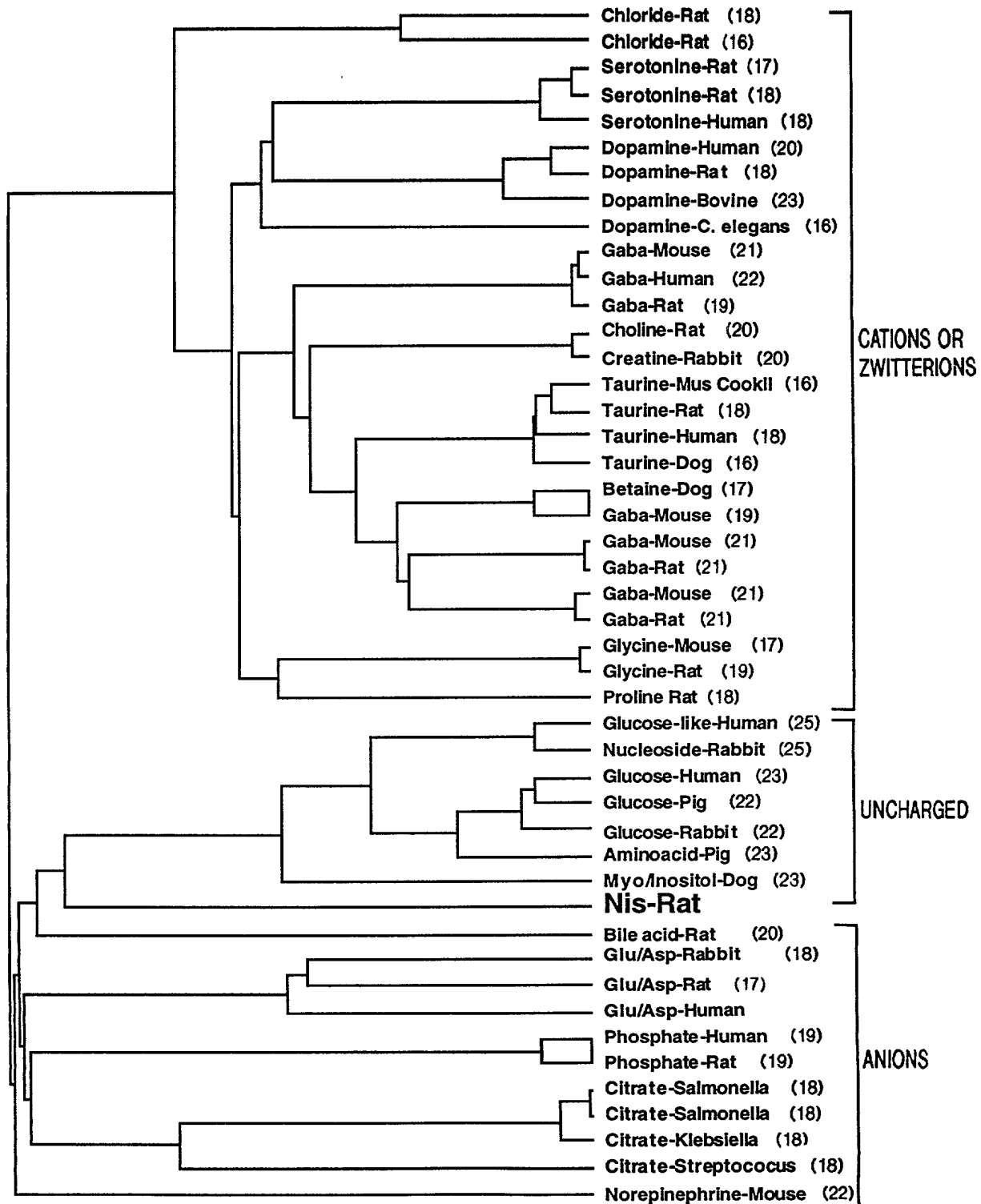


FIG. 4